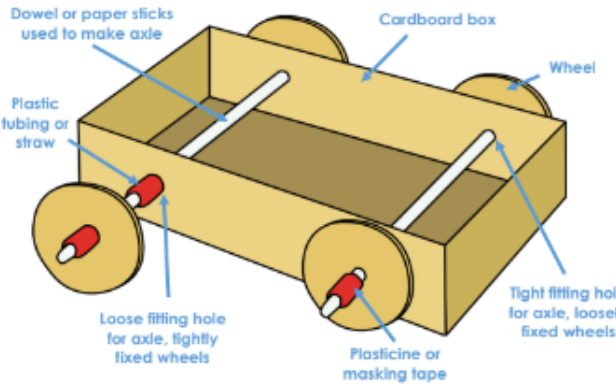
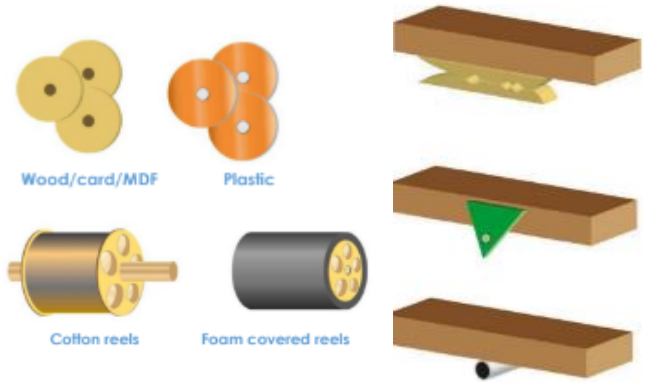


Year 2: Mechanisms Knowledge Mat

| Subject Specific Vocabulary | | Fixed axle and moving axle | Important knowledge about mechanisms: |
|-----------------------------|--|---|--|
| wheel | A circular object that revolves on an axle to allow a vehicle to move. |  | <ul style="list-style-type: none"> ❑ I know what mechanism makes a toy or vehicle roll forwards. ❑ I know that a wheel must be attached to an axle. ❑ I can draw and label a diagram of an axle, wheel and axle holder. ❑ I know the difference between a fixed axle and moving axle. ❑ I know what makes a wheel and an axle work. ❑ I can design a moving vehicle which includes functioning wheels, axles and axle holders. ❑ I can use a range of tools and equipment. ❑ I know what I need to do first, next, last. ❑ I know what materials, joining techniques and finishing techniques I am going to use and why. ❑ I know how to improve my design to make it even better. |
| axle | A rod or spindle (either fixed or rotating) passing through the centre of a wheel. | | |
| axle holder | The component through which an axle fits and rotates. | | |
| chassis | The frame or base on which a vehicle is built. | | |
| vehicle | A thing used for transporting people or goods. | | |
| criteria | A standard for judging, evaluating or selecting something. | | |
| | | Different types of wheels and axle holders | |
| template | A shape drawn to help with cutting out shapes. |  | |
| mock up | A model which allows us to try out ideas using cheaper materials and temporary joints. | | |
| evaluate | To judge how a product meets a chosen criteria. | | |
| measure | To ascertain the size or amount of something using standard units. | | |